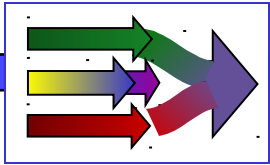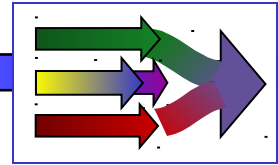# Test & Evaluation Overview

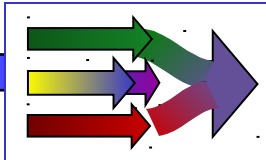# TIWG Workshop

31 Oct - 1 Nov 01

Agenda

- Test and Evaluation Overview

- VIOC Evaluation Process

- Roles and Responsibilities

- TIWG #1 Overview

- TIWG #2 Summary of Events

- Ground Rules and NetMeeting Training

Test & Evaluation

- **Mirrors successful T&E effort used for MS 1 & 2 Demo**

- **SSF T&E patterned after DoD & Army**
  - **Provides framework**
  - **Allows use of most effective aspects**

- **Allows guidance without unnecessary burden**

- **SSF is not a major acquisition program It's Business Process Reengineering**
  - **Legacy system changes**
  - **Small amount of development (middleware)**

AR 73-1	Test & Evaluation
DA PAM 73-2	TEMP Procedures & Guidelines
DA PAM 73-3	Critical Operational Issues
DA PAM 73-4	Developmental Test & Evaluation Guidelines
DA PAM 73-5	Operational Test & Evaluation Guidelines
DA PAM 73-7	Software Test & Evaluation

- **Your involvement is key to ensuring your issues are**

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Test & Evaluation- Definitions
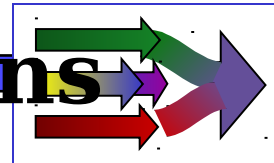
Purpose: Identify risks and determine readiness to proceed to the next phase

Test: A program, procedure, or process to obtain, verify or provide data for determining the degree to which a system meets, exceeds, or fails to meet its stated objective.
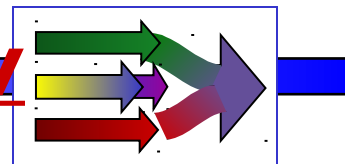
Evaluation The review, analysis, and assessment of data obtained from testing or other sources.

From AR 73-1

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The Advisors

Test Integration Working Group (TIWG)

The Plans

Scope: Milestone 3 Business Processes

OVERALL TEST & EVALUATION
• Test and Evaluation Master Plan (TEMP)
• SSF PMO

Pre-VIOC Developmental Test & Evaluation (DT&E)		VIOC Operational Test & Evaluation (OT&E)	Implementation
LEGACY SYSTEM CHANGES • Internal Test Plans • System Proponents **MIDDLEWARE** • Middleware Test Plan • GRCI **CONVERSION SOFTWARE** • Conversion Test Plan • GRCI	**SYSTEMS INTEGRATION TEST (SIT)** • SIT Plan • GRCI - Test Director	**VIOC EVALUATION** • Demonstration Plan (Chap. 6) • SSF PMO	**IMPLEMENTATION EVALUATION** • Implementation Plan • SSF PMO

VERIFICATION & VALIDATION
• SSF PMO

INDEPENDENT EVALUATION
• Independent Evaluation Plan
• AAA

The Measures

| **Test Cases based on Requirements**	**Test Cases based on Typical Expected Transactions**	**Metrics related to Critical Operational Issues (Showstoppers)**	**Metrics that show impacts in order to make adjustments**

The Decisions

SIT TRD Mid-SIT Review **VRD** Mid-VIOC Review IRD ESC GOWG CSA

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VIOC Evaluation

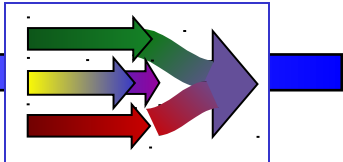*Sustaining The Transforming Army*
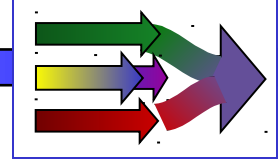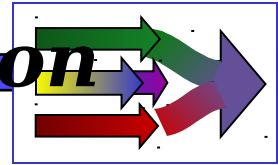
Two Questions will need to be answered:

1. Did the SSF procedures and system changes achieve the VIOC objectives?

2. Are we ready to implement SSF Milestone 3 throughout the Army?

Evaluation Organization

Critical Operational Issues

- "…effectiveness and operational suitability concerns that must be examined… to determine the degree to which the system is capable of performing its mission. A breach is reason to delay…" (AR 73-1)
- In the form of a question
- Based on the VIOC Objectives

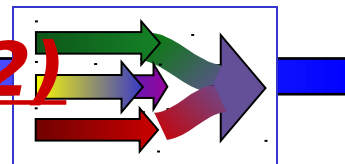## Each COI has at least one Criterion

- In the form of a "must" statement

Each Criterion has one or more Metrics

- Some metrics are used more than once, e.g. CWT
- All the metrics in a criterion are used to reach a decision

COI: Does the Demonstration achieve an effective Single Credit Process for AWCF-SMA funded items?

**Criteria:**

- Credit processes from the National level to the O&M customer must be enabled
- O&M customers must receive timely credit
- Retail to consumer credit must be disabled

Metrics:

- Enabling Wholesale to consumer credit
- Correct Credit for items turned-in
- Timeliness of credit posted to O&M customer account
- Disabling retail to consumer credit

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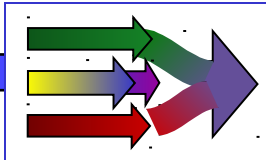
Risks Embedded Into These Ratings

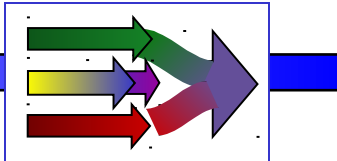| **Green** | **No significant issues exist that would delay moving to next phase.** |

| **Amber** | **Significant issues exist, but impacts considered manageable and should not delay a start to next phase** |

| **Red** | **Showstoppers exist that will prevent a start to the next phase** |

|	PM Rec	FORSCOM	TRADOC	USAREUR	USARPAC	MDW	EUSA	USAR	USARNG	AMC	ASA-FM&C	DALO-SM	DLA	DFAS	AAA	Issues	Get Well Plan
Single Point of Sale	G	G	A	A	A	G	A	G	G	G	A	G	A	A		• Demo open High Priority Problem Reports involving financial issues	• High Pri Problem Reports to be tested, validated & closed by 15 Sep 00
Single Credit Process	A	R	R	R	R	R	R	R	R	A	A	R	G	A	R	• Open Demo PRs • Timeliness • System downtime	• Process Team researching causes – Will update at 30 Aug 00 GOWG
Integrated Requirements	G	A	A	A	A	G	A	A	A	G	A	A	G	A		• AAA reported that CCSS has incorrect RO values in some cases	• CSC St. Louis is researching, will address at GOWG
Nat'l Maintenance Mgt.	A	R	R	R	R	A	A	A	A	A	A	A	-	-	A	• Transition from minimal Demo procedures to complete MS 1&2 workloading issues	• AMC published detailed SOP on 22 Aug 00
Materiel Readiness	A	A	A	A	A	A	A	A	A	A	A	A	-	A	A	• Some key metrics (zero balance, demand satisfaction) below tolerance	• Continuing to assess • Relooking adequacy of some measures
RON/DON	G	A	G	A	G	G	G	G	G	G	A	A	-	-	G	• Concern about effects at Milestone 3 (MS 3)	• MS3 Process Action Team issue
Partial Issues	G	G	A	G	G	A	G	G	G	G	A	-	G	G		• Concern about effects at MS 3	• MS3 Process Action Team issue
Shared CTASC	G	A	G	G	G	G	G	G	G	G	G	-	-	G		• Doctrinal concern about requirement for AMC to staff CTASC positions	• TRADOC working the issue

DEMO GOAL ATTAINMENT

Notional
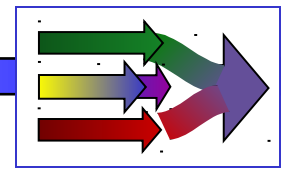
Roles & Responsibilities

Establish and Chair a Test Integration Working Group (TIWG) to implement T&E coordination and resolve routine problems

- Prepare a Test and Evaluation Master Plan (TEMP)

- Draft Critical Operational Issues for VIOC evaluation

- Ensure relevant data is gathered for established metrics

- Report on progress and status of VIOC evaluation

- Trouble-shoot problems and assist affected activities

- Provide input to Independent Evaluators

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- Prepare After-Action Report (PM Evaluation

Roles & Responsibilities
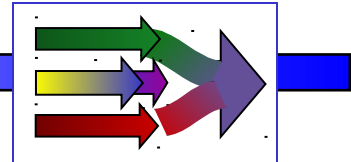
Installation/MACOMs/National Manager

- Ensure SIT Test Cases are adequate
- Validate Critical Operational Issues (COIs)
- Identify metrics required to answer COIs
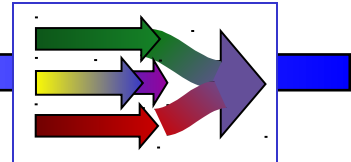- Provide Input to Demonstration Evaluators

Data Collectors

- Data collection and analysis during VIOC
- For example, LOGSA & MPRI, but actual organizations to be based on the metrics that are identified for the VIOC

AAA

- Validate the Metrics Baseline (FY 00)
- Conduct Independent Evaluation of VIOC

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T&E Summary

- VIOC is part of a process intended to minimize risk as we move to each phase

- Installation involvement in all phases is critical, especially:

  - **Systems Integration Test (SIT) Planning**

  - **VIOC Evaluation/Metrics Planning**

  - **VIOC Evaluation**

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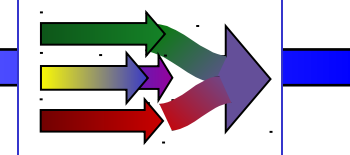
TIWG #1 Overview

Test Integration Work Group #1 *(11-12 Jun 01)*

- **Representatives from Ft. Hood, MACOMs, Texas Guard and Reserves**
  - From Ft. Hood
    - 13th COSCOM, 1CD, 4ID, DOL, and RM
- **Worked through 90 percent of critical operational issues and criterion for VIOC**
- **Key FORSCOM/Ft. Hood issues to be staffed**
  - Wants OMA buying power evaluated
  - Will not create simulated deployment
    - Evaluate an actual deployment during VIOC period
  - Will not do 90-day prior ASL review, assess during
- Attendees agreed that session was very e evaluation details
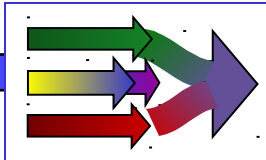- Next TIWG scheduled for Aug 01

Two top concerns when GEN Coburn and LTG Mahan visited Ft. Hood.

Other concern: READINESS.

Was told that FORSCOM made decision that 4ID will participate in VIOC, formal letter forthcoming

TIWG #1 Taskers

1. Need to ensure DCSLOG is aware of ATEC's position not to assist with the Independent Evaluation of SSF MS3. MACOMs would like ATEC to play vital role in "green suit" verification. POC: AAA. **Continuing to work.**

2. How will AEPS work in deployed environment, especially with the IBCT? POC: AMC. **Extended via web-enabling.**

3. What is the mechanism for updating the ISB tables? Extensive if all locations have to keep current. What are the procedures for updating? POC: DFAS.

4. MCN requirements need to be re-addressed at upcoming Business Rules session. Key is having more responsive system. Requirement prior to MS3 conversion is extremely large and cannot be handled under the current system. Process needs to be streamlined. POC: AMC/SSF PMO. **Special assessment underway, approx. 4000 MCNs in MACOMs' inventory. Focus is to work-off MCNs. More details forthcoming by Nov 01.**

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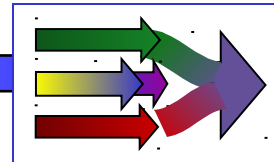
5. How will DTLOMS be addressed for MS3? CASCOM requires detailed procedures for new processes under SSF. CASCOM needs to develop POIs to train new processes and cannot do so unless proponents, i.e., NPO provide the specifics. Initial recommendation will come through Rock Drill but what will provide institutionalization of changes? POC: CASCOM/SSF PMO. **CASCOM has already developed Distributed Training Vehicle. SSF Directorate will conduct VIOC training.**

6. To reduce turn-around time of VIOC Plan, SSF PMO will send completed chapters as soon as possible and then forward other chapters when completed. POC: SSF PMO **VIOC Plan released for review after thorough scrub. Coordination and synchronization of chapters didn't allow chapters to be released separately.**

7. How will Op Project stocks (OPC 9) be excluded from an AWCF box? POC: SSF PMO. **Milestone 1&2 rules apply, stock will be protected. Installations/MACOMs must ensure OPC 9 boxes are officially recognized by DA or they will be capitalized.**

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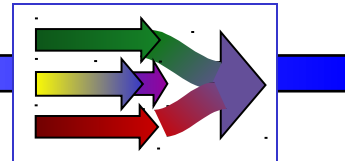
8. ASL review procedures must be published and disseminated and must address dollar cost banding as well. What new products (if any) will AMC bring to the table, and what action will they take after review? POC: AMC.

9. Use VM retrograde IPT to help assist in developing VIOC approach. POC: SSF PMO. **DALO-SSF are now memebers of the DA CWT IPT and will keep that forum up-to-date on VIOC developments.**

10. Will SSF PMO conduct on transaction volume analysis? POC: SSF PMO (POC: DALO-SSF). **Yes, assessment completed and will be posted on web site early Nov 01 or sooner.**
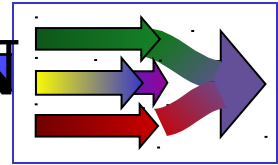
Sustaining The Transforming Army
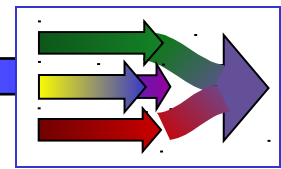
TIWG #2 Overview
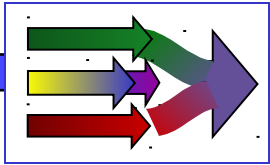
- Business Rules change

- Incorporating DS/RX program

- Completing National Maintenance Management

- Completing Materiel Readiness

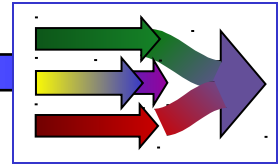- Defining metrics, their goals, standards, source, thresholds, etc

Milestone 3 Business Rules
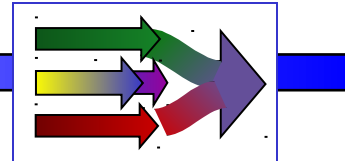# Lew Johnson

30 Oct 01

Purpose

- Address MS 3 Business Rules
  - Prior to the decision on DS/RX
  - Baselined following DS/RX decision
- Cover status of actions to implement revised business rules
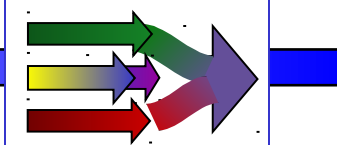- Cover ongoing actions and next steps

- **MS 3 Business Rules Development**

- **MS 3 & MS 3 DS/RX Business Rules Overview**
  - ᵘ **Financial Management**
  - ᵘ **Materiel Management**
  - ᵘ **National Maintenance Management**

- **MS 3 DS/RX Implementing Instructions**

- **Process Enablers**

- **MS 3 DS/RX Information Technology Drivers**

- **Next Steps**

Background

- **MS 3 Process**
  - **Army-wide Business Rules sessions**
    - **Oct 99, Feb & Jul 00**
  - **Rock Drill sessions**
    - **ICT sessions (10) Mar through Nov 0**
    - **Council of Colonels (3) Jun, Aug, & Nov 0**
  - **Staffing with MACOMs via SOP (Oct - Nov 00)**
- **Revised MS 3 Process with DS/RX changes**
  - **GOWG May 01**
  - **Analyzed 3 COAs**
  - **DCSLOG review May-Jun 01**
  - **June Business Rules Session**
  - **SITWIGs (2) Jun & Jul 01**
  - **O6 Level MS3 Rock Drill Jul 01**
  - **Proposed MS3 DS/RX rules sent to MACOMs/Army Activities 29 Aug 01**
 - **VTC established MS 3 baseline rules 2 Oct 01**

Participants: HQDA, Field MACOMs, HQ, AMC, USAR, ARNG, DFAS & Other DA Activities

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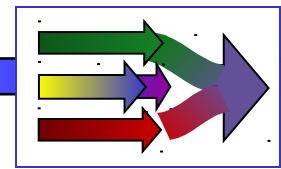
Planned MS 3 Financial Business Rules
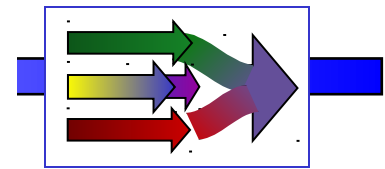
FBR: 1 Consumer funded-owned SSA on-hand and on order inventories will be capitalized without reimbursement into AWCF SSA on the capitalization date specified.

FBR: 2 Credit will be returned to the customer in an expedited and consistent manner.

FBR: 4 Consumer funds will be reconciled by a standard automated system.

FBR: 5 The ARNG will continue to use the SABERS Financial Accounting System.
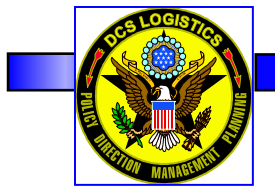
Planned MS 3 Materiel Management Business Rules
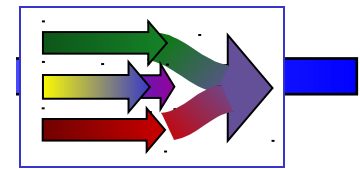
MBR: 1 Ov... ...ade during th... ...em process in CCSS, including consideration of AWCF-SMA AFB assets. Retention of assets below the National level will be IAW HQDA policy.

MBR: 3 Commanders calculate tactical requisitioning objectives (ROs) IAW DA policy and forward to National level for incorporation in the national requirements determination process.

MBR: 4 Commanders will set SARSS referral search pattern and penetration level of MS 3 units on installation/region (OCONUS).

MBR: 5 Tactical SSAs will retrograde serviceable excess and unserviceable assets to designated AWCF sites.
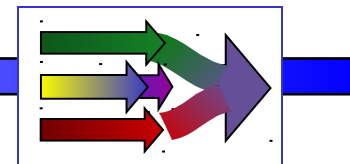
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Planned MS 3 National Maintenance Management Business Rules

NBR: 1 National Level will have visibility of DS repair data through standard automated systems.

NBR: 4 AMC will use the Maintenance Contract Database (MCDB) as management tool for visibility of contract repair vehicles.

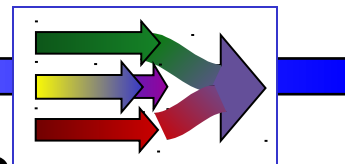# Baselined Financial Management DS/RX Business Rules

Business Rule

FBR 7 AWCF-SMA WILL NOT BUY FROM OR RETROGRADE TO O&M.

FBR 8 CONSUMER FUND CONTROL WILL NOT BE DEGRADED.

FBR 9 DS/RX REPLENISHMENT REQUISITIONS WILL BE SIMULTANEOUSLY OBLIGATED.

FBR 10 AWCF WILL NOT FUND THE O&M DS/RX PIPELINE.

FBR 11 MACOMS RETAIN OWNERSHIP AND CONTROL OF DESIGNATED DS/RX ITEMS.

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Baselined Materiel & Maintenance Mgt. DS/RX Business Rules

Business Rule

Materiel Management

MBR 6 RON/DON CAPABILITY WILL BE FULLY SUPPORTED IN ALL AUTOMATED LOGISTICS AND FINANCIAL SYSTEMS. IT'S USE WILL BE AT THE COMMANDER'S OPTION.
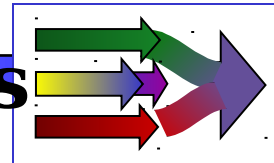
MBR 7 COMMANDERS WILL RETAIN THE ABILITY TO DESIGNATE DS/RX NIINS BY SSA.

Maintenance Management

NBR 7 COMMANDERS WILL DETERMINE DS/RX REQUIREMENTS AND PROVIDE DATA TO ARMY ELECTRONIC PRODUCT SUPPORT (AEPS) AND THE O&M NIIN FILE IN SARSS.

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Rule to ECP Crosswalk Process

Rule to Systems Changes
- MS 3 & DS/RX Business Rules Sessions
- Functional and System Experts evaluated impact of MS 3 & DS/RX Business Rules on systems

Ensure Rules & ECPs are synchronized

ECPs Developed
- Series of development sessions
- Materiel, Maintenance, and Finance included

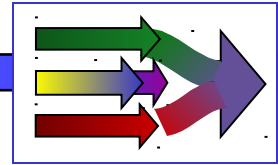**Trade-offs between functionality and schedule evaluation ongoing**

Cost and Schedule
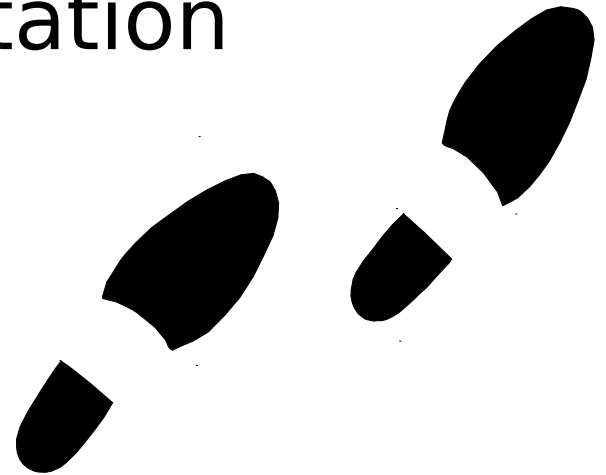- Establishes timeline for SIT and VIOC
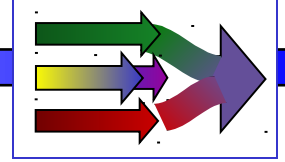- Drives implementation schedule

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Next Steps

- Ø Validate crosswalk to ECPs

- Ø Continue Working Enablers/Details

- Ø Include in Implementation Plans

DS/RX

31 Oct 01
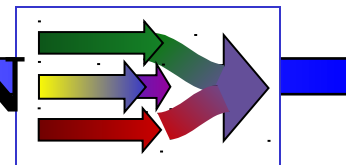
DS/RX Strategy
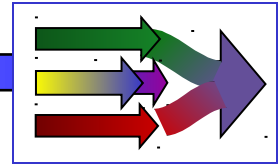
Sustaining The Transforming Army
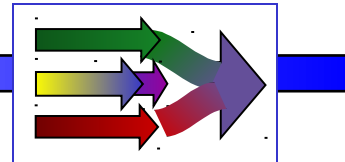
Purpose

Highlight key aspects of the DS/RX Strategy

- **ASL Management Process**

- **Key Control Factors**

- **DS/RX Operational Characteristics**

- **Key Points**

Background

11 May 01 SSF GOWG decision:

    DS/RX remains O&M funded in FY 02/03 under SSF Milestone 3

Initial sessions to assess/work the issues resulting from that decision

    15-17 May 01--Review Automation COAs

    18 May 01--Leadership brief- Additional analysis was directed

    6-7 Jun 01--Results staffed with key personnel

    14 Jun 01--Murderboard - Army   **Army-wide**

 18 Jun 01--DCSLOG Review

 20 Jun 01--DCSLOG COA Decision e-mail message to the field

 19-29 Jun 01--System Integration Work Group

    19-29 Jun 01 Developed detail DS/RX process flows

    16-20 Jul 01 Continued to develop detail DS/RX process flow

    21-24 Aug 01 Continued to develop detail DS/RX pro **Army-wide**

    Sep 01 Postponed due to current events

    22-26 Oct 01 Planned-- develop procedures for changes to DS/RX

 19 Jul 01-- Update to Army Maintenance Advisory Board
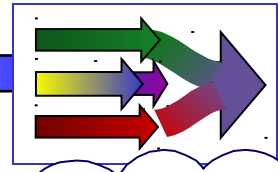
 25-26 Jul 01--COL-level MS3 Rock Drill

9 Aug 01-- SSF GOWG

16-18 Aug MS3 SARSS Parameter Wor **Army-wide**

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•**Flexibility -- O&M Referrals**

•**Reduces O&M bill until Exchange Pricing**

•**Provides visibility of complete AWCF operations and visibility of   DS/RX Activity/Costs**

Commander determines requirements:

    --Stockage IAW DA policy

    --DS/RX list to meet local readiness needs

Tactical ASLs will have both AWCF and O&M inventories

    --Internally SARSS has 1 AWCF RIC & DODAAC-- minimal operational impact at tactical SSAs

Commander determines what NSNs will be repaired to meet readiness:

    -- These DS/RX NSNs & associated inventory will remain O&M funded and repaired in local maintenance programs

    -- Other NSNs will be capitalized into AWCF at MS3 conversion; National level will repair NMM items at GS or depot

Funding for spare & repair parts is based on Tactical Commander's support concept:

    -- DS/RX: CDR funded for piece parts consumed in repair & washouts

    -- AWCF: CDR funded to buy NSN, at AMDF value, from National provider based on historical demands

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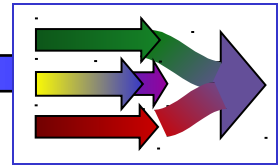
Determination by NSN of what will be O&M funded and what will be AWCF
   Set FY03 funding levels

Automation to manage both O&M and AWCF inventory

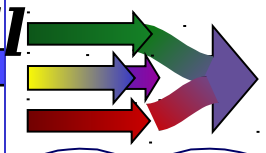Controls between O&M and AWCF inventory

Process to capitalize inventory into the AWCF in future years

Clear implementing instructions

Maintenance Workload File in CCSS (via AEPS), SARSS & Middleware:
   - Determines O&M funded NSNs
   - Controls flow of unserviceables

O&M NIIN table in SARSS and Middleware:
   - Supports CDR operational processes (i.e., referral, retrograde)
   - Supports financial control requirement
   - Supports O&M to O&M transactions

2 New Tables will define O&M & AWCF NIINs

   The Maintenance Workload File and the O&M NIIN Table

   The MWF and the O&M NIIN tables, in conjunction with the O&M RIC & DODAAC, will enable the automated systems to process transactions IAW the correct financial logic

   These tables will be loaded at conversion IAW CDR's DS/RX list

   Subsequent changes must be loaded to these tables when a modification is authorized

   Referral logic, funding of replenishment actions, OPTEMPO funding are based on the O&M - AWCF decision

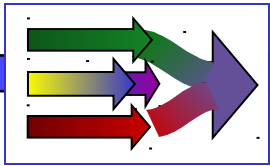   The entire RO and RL will be held against whatever <u>funds</u> the NSN

Commander sets the O&M referral search pattern to support operations
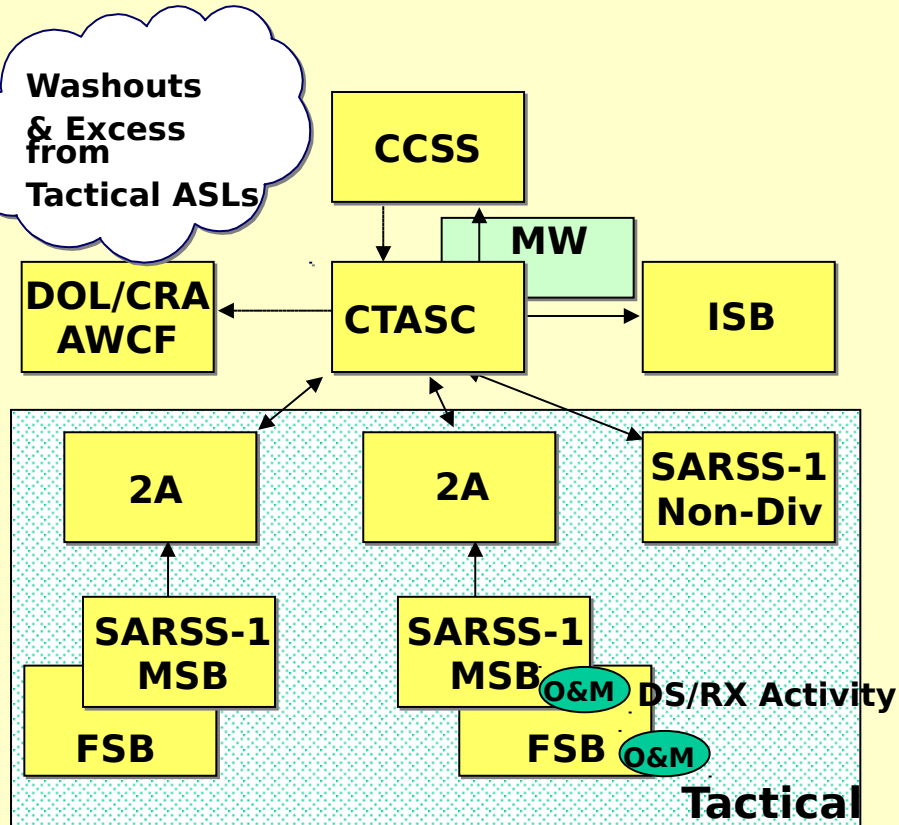
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DS/RX Concept

Description: SARSS & _Middleware (MW)_ separate AWCF from O&M

DS/RX

Washouts & Excess from Tactical ASLs

CCSS

MW

DOL/CRA AWCF ← CTASC → ISB

2A   2A   SARSS-1 Non-Div

SARSS-1 MSB   SARSS-1 MSB   **O&M** **DS/RX Activity**

FSB   FSB **O&M**

Tactical

Key Automation Changes

- MW manages O&M associated RIC & DODAAC to support DS/RX transactions
- SARSS uses the Maintenance Workload File and the New O&M NIIN Table to determine O&M funded NIINs
- ISB changes required to support O&M processes

Referral/Retrograde Characteristics

- AWCF to AWCF Referral
- O&M to O&M Referral
- O&M to AWCF Referral
- O&M to O&M Retrograde
- O&M to AWCF Retrograde
- No AWCF to O&M Referral
- No AWCF to O&M Retrograde

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Critical Points
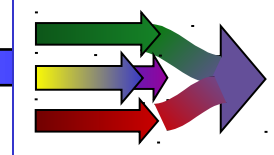
➢ **The Commander can authorize a change to his DS/RX list at any time**

➢ **However:**

    - Must manage within his funded level within the year of execution (same as today)

      - Consider impact on National repair programs

      - Carefully control changes after MS3 conversion:

        Example:
        An NSN changed from AWCF to O&M, to include
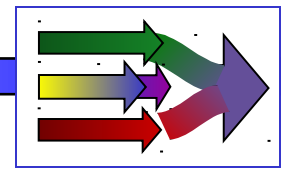
        inventory on hand and on order will be purchased from

        AWCF at AMDF value

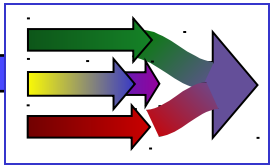➢ **An NSN should be coded the same <u>throughout the search matrix</u> to facilitate ease of movement of stocks**

      Example:

      FSB & MSB must code same NSN at O&M or AWCF
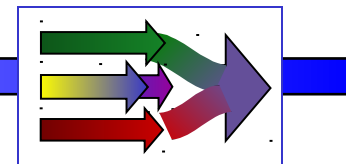
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Let's get busy

TIWG Ground Rules

- T&E limited to SSF Business Rules and processes
- Must be related to Milestone 3
- If we can't baseline metrics we do not need to set standard
- Evaluation must include Army, Reserve and Guard SSF activities to thoroughly test Army future environment
  - This is not a Ft. Hood specific evaluation
- TIWG Evaluation Worksheet will be a multi-organization product and will not be changed without the knowledge of the TIWG body
- This is not a forum to change current Army/SSF processes
- If issue needs to be elevated or response is not attainable at TIWG we will record as tasker/parking lot issue (Open taskers will be discussed at Executive TIWG)
- Take side conversations outside, we need to stay focused

Quick Overview of Evaluation Worksheet

| Heading	COI	Criterion	Metric Name	Remarks	Data Sources/ Locations	Reporting Frequency	DA Goal	Standard	Baseline
Single Point of Sale	Did the VIOC achieve an effective Single Point of Sale for AWCF-SMA funded items?	O&M Customer sale must be moved to the Tactical SARSS-1	- Number of A0As received from the VIOC direct customers that are successfully processed--MRO'd, backordered, denied/refused. To assure the completion of the sales transaction, supporting DICs, including MRO, AR0, DRA, must be recorded. - Correct charge	Issue: The catalogs are not synchronized. **OMA t0 AWCF = No credit. Cdr AWCF to OMA: DS/RX must buy)**					
		O&M customers must be able to effectively manage their financial accounts	- Ability of commander to track obligations (timely) using available tools - Reconciliation match between supply and financial records - % of Commander's (battalion level) budget spent versus annnual plan (using FY 00 and 01 as baselines) ...ty of Na	National Guard units will use IMAP to control financial obligations at the unit level. - Ft. Hood needs tool to manage financial accounts at unit ULLS level					

Everyone should have a copy of the Evaluation Worksheet. Bold print are recommendations and/or suggested changes from TIWG#1 Baseline.

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Computer Training
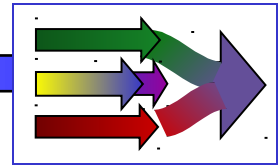
- Systems setup with specific org account
  - Senior Leaders name required
- NetMeeting similar to chat room
- Master computer will control session
  - Will ask you to respond to questions
- Be specific with comments
- Before transmitting, ensure comments are correct (typos OK)
- If you want to change response once entered "state delete first entry"
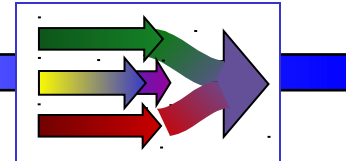- Must respond even if you don't have comment
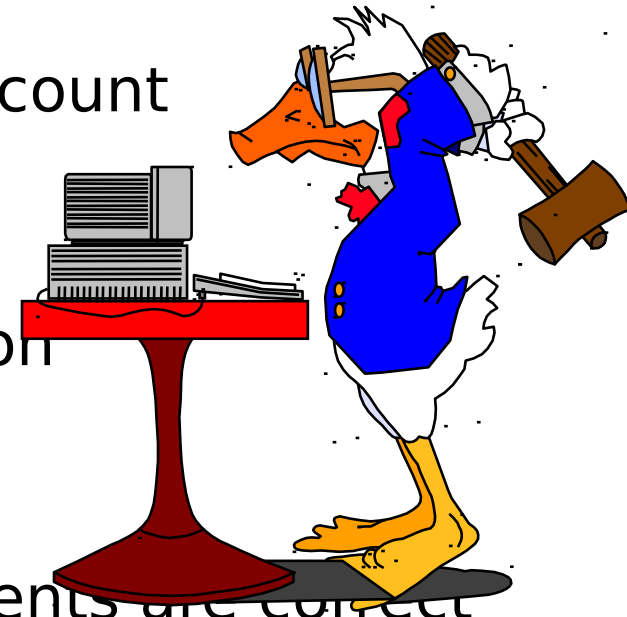
Startup
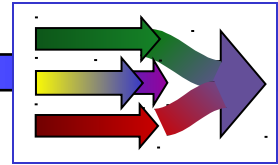
- Systems log-on (already accomplished)
  - If you lose connectivity you must log-on again
  - User name and password is same as Name Plate
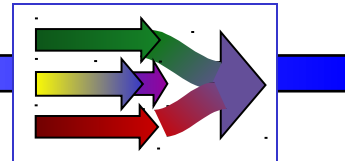
- Respond to initial question

- Any questions

BACKUP SLIDES

Purpose: Prescribes policies, responsibilities, and procedures for developing and modifying single Stock Fund Business Rules.

SOP Staffed with MACOMS

Ø**Shared Responsibility**. Through their designated representat...

- DCSLOG
- ASA(FM&C)
- Commanders
- Chief, Army Reserve
- CG, CASCOM
- Director, DFAS-IN
- Director, ARNG
- PM, SSF

- **Recommends**
- **Reviews**
- **Participate in BR sessions hosted by the SSF-PM**

Ø**STAFFING -- A "live" process** . . . recommended changes submitted anytime deemed appropriate.

- § Coordination via e-mail, VTC, scheduled board meetings
- § 7 days to evaluate proposal
- § Standardized format for proposed change recommendation(s)

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IT Solutions

Policies

Procedures

Business Rules and Implementing Procedures

Drive

Consensus

GOWG

MS 3 Changes

Non-Rule Related Issues

Issues

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